) 1 1 1 30 J K PERFORATED AND STAPLED.

Sections Brook Simbon candilin 6 3 contract as a promote 63 3/-4/ and there, and is springer great Branch 65-66 muli creating up of former -Nilon Ar Elina 50, 61, And South - Forth Sund, - 100, 100, 5 5 Charlenn in Manney of the development of the 1 the 1 th min to A S Shringen - Ny, --3 - 41 city is a green to get to be a few -Masserd S. J. Maria de la constante de la co 63 1 2/ Waste to the man , t 1 \$18-49 

Sections Basal Sumpson Sandolone 63 Contact " + Arbuskle 57-59 Cool Creek, east of Speringer March Janes Brown Colon 65-66 mille Crush ( Up of remille) 67,68 Nebo-Nr E y Springer 60,61, Och Oceah - Love, Sunp, & youth, 62 = Ozarhvan in Honer Sr, sechen is 56. Continuelle (Elle) 3m, Eg 48-49, Espringer - N. 9: - - 29-47 Ellricho generalizza, secheno - 27-28 Up. Arbushle - 10,14, 29 to 35, Up. 1. Graphalla " Ostratala -My all to Bann . - . -West Shramma heid with the 48-47

June 15 1908. Received letter from An. E.D. Which, Woodbury Jenn, stating, suthority had been granted to employ one as collector on the N. S. Geological Survey, June 1 oth to July 31 1908. Employment blanks were received, filled out and returned to washington D. C. on this date.

Field of work. Instructed to collect from best levelihes in Simpson and inhuckle formations, "somewhere between Elk and Bernvyn --- and south of the wooded Hills," i.e. south side of inhuckle Mts. west of washita River.

June 16th.
Made hasty preparations and left
Norman Ikla, for Springer Okla. on
3:05 P.M. Santa Fe train via Oklahoma
Lity, Woldewille, Madill and indmore.

June 17 Th. arrived in irdmore 4 P.M. Stopped with Everette Noble June 18th. Hired livery rig to take me to south hank of Caddo Creek. Crossed stream in shiff and rode in waggon to within two miles / Springer, which distance I walked with baggage. irrived in springer on foot 12:30 P.M. ufter Dinner walked 21/2 to 3 miles north of springer and endeavored to correllate Dr. Ulrich's generalized section of the lower urbuckles with the formations which I saw before me - Easily distinguished Vivia, had some difficulty in find for sandstone members in the Simpson, in fact the basal one (1st) which resto upon the urbuckle formation, was not found until my own section had been Returned to Springer Hotel by 7 P.M.

June 19th. Walked out to the ground I had gone over Thursday afternoon. Lefter debating for a time concluded hest to make detailed section of Singson and Upper wherehe in order that I may definitely weate the many forish horizons of those formations. Began making section by starting with thin sandstone which I thought was the base of the Simpson, and worked north (down) in the arbuckle true tone & shales some 250-300 feet. Here I found a local sandstone 2-4" Trick in a shalf hand. This is the lowest D.S. that is to he seen here for hear is yessist to the north (downward). With such a start I crossed small tributary of Tulip Creek to another ridge , mile to the east. Here, I began with the 2-4" local sandstone and went up in the section. My measurements corresponded exactly with what I had made y mile to the west, so I continued

June 20th detailed sectioning on up into the Simpson. Later, I found that my first assumption about the basal Sandstone of the Singson was not well drawn. The hase of the Simpson was not clear in my mind until some three weeks later when I creek happened by chance to find a graptolite horzon - in upperment 300' of inbuchle franction. I returned to my springer locality and verified in The Springer section, which appears velors, my mistake. June 21 st. Sunday, it Springer Hotel. Had to be careful since I was pretty well rum down after mine months of exacting indoor work. Workedout section in Note Look June 22 nd to June 25th. concluded making of section and collections from Springer Section. fune 26 th. archivore and return. June 27th. mail hack, Springer to Woodford. Dumer at Glenn, Woodford 3. P.M. Walked out northeast of Woodford Sec, 24 T.25, R. I.W. and justs 1 surrounding sections, level basin of simpson at end Il fault line. no good Exposures. farmed. Dipol strata possibly 150 Decided to rule horse back since the section equal to the Springer Section was drawn out for at least a mile or then I need to find retter expression in order to make a good rection.

June 28 th. Rode Dr. Paylor's hose, "I'd Baldy" up Hickory Creek to Hugh Wallace's on Simpson formation. Photographed valley, green sh. and thin hedded bo. in upper 400' & Simpson from 4 th B.D. ledge near his house. One gets a good view of the Viola escarpment from this point. Rode through pastures, along escarpment, until south of the Russell trouse, S.W. J. See. 22, T, 25,, R, IW. Collected few famile from their headed himestones in Dingson just below have & Viola. Croned Sumpson to upper inhuchte at right angle to strike of strata part Russell form house. Mr. Russell with me for a hore thief you maring how to get into the hig pasture much he The numerous starts so well represented with were very work enjoyed here. Only a general section could be made at fest. I concluded it hest to more on to Elk. a mall collection

was made, the larger portion of hich was collected from the their bedded limestones and green shales just heneath the base of the Viola on the west banks, vickon Creek. Some views of Singson woography were taken

June 29th. Monday,

The mail hack did not

come down from Porbrille or Elk

since Eximy siech was out of

its Lanks. Staid at The Hills Hotel

June 30th.

Visited asphalt nimes near

woodford before going with mail.

hack driver to Porbrille. Dinner

in Woodford. Porbrille 6:30 P.M.

July 1 st. Since me hose was to he had in Partville waked east from Lown, across Permian Red Beds, to Simpson and arbuekle exposures. where these formations were first den, 5 W/4, h.E. 14 sec. 36 T. 18, P.2W at road crossing the exposures of stone was very scattering in The high luxuriant grass. Dip 10° t5N. approximately. A round up work place here which afforded me a chance to meet a few of the native controys and learn something the country. as I moved east down the road to West Spring Creek I found Certain members of the Sungson to be well expensed, they are shown in the section which given elsewhere ( 1.48 in this work. Since I could get to stay all night out here I walked 4 seriles buch to Pormille.

July 2nd. I Concluded work in West Spring Creek section given later in this book. Staid with & ? Jones. N.W. 1/4 Sec. 10, T. 25, R.I.W. July 4th.

Took Collection to ardnere in wagon with D.C. Jones. Rode 28 miles & 11:35, 4.M. Caught Santa Fe 11:37 AM. North to Norman. 6 months blanviersty salary was finall part so had to go to horman to pay outstanding bills.

July 5th. Semla, Norman to pay outstanding fills.

July 7th. Left Norman for Springer okla.

July 7th. Left Springer for Henry House Creek, horseback.

July 9th? made section & wellestion just east of Heiry House Creek. Staid with Tom Waynon. See ocction helow.

July 15th.
Left Wagnon's SW.1, Sec. 20. T. 25, R.18,
for Reger's headquarter's ranch M.S.1, 8ec. 29
T. 15, R.18. up Henry House Creek

made three small collections from middle writion of whichle and one home limestone in Reagan.

July 1. th. Royer. Ranch on Honey Creek. brose 3 A.M. since Cowhoy's were to drine cattle to Berwyn to ship. as soon as it was day light made collection from limestone and shaly hands in upper Reagan for this ranch house is just west of East Timbered Hills south of Honly rech on upper Reagan. Just before noon found thin ling members in hazal 400 ft. which occassionally hear tribbites. Before and not long after noon made three collections from this horizon. whont the middle of the afternoon started southeast sward Springer following rather coarse, weather dark, which

I noticed just to the right and above me in the vicinity of the East Timbered Hills, took a southeast course towards Berugn. as I moved along the road I noticed it persisted with thin hing and shall members of considerable width forming shallow swales or ralleys with but few ledges I rock outeropping. The dotomitie layer was crossed where the road joys in the S.W. 4 Sec 7 T. 25, R.22. The was secupies runs along the thin heds of the massive more or less Cherty limestine thing heds below" just above the dolomitic hand until it turns S.W. across the the upper arbuchle from Cool Creek. approximately a mile east ? Where the road turns s.w. out of Cool creek, the wherethe strata have been subjected to great stresses since they Dec. 26. T. 25, R. 28. a few pagments
I tribolites were friend just above dolomitie 4 voi at Gob Sivily's ranch house on Cool
Creek.

July 12. Sunday, it springer Hotel.

July 13th. Revisited site of Springer Section
and examined 6-500 of arbuekleds.

In Exaptohtes. I was successful
I'm finding a large hamful of
them in stone. a good site for
the green shales of thin hedded b.

at the top of the Singson, having been
rotheed when on my way to make
the Henry House Creek section
that just west of Tulip erech 1/4
mile west of where the former
section was made, 9 mile
a section & extlections from this
locality

July 14 th Rode N.E. of Springer on road to Cool Creek, measured thickness 1) Simpson exposures of strata and upper part of arbuckle. "Cooked and whe dinner at Swily ranch trouse. Collected a few pagments of tribotites from Thin hedded b. 50' above Coarse statomitic 400' layer Rode several miles east, took photograph of concretionary weathering all detorinte thin helding thata. Recid from Mr. E. O. Ulrich a letter which stated that the plans of Drs. Hages, Tall & Which, i.e. to meet me about the isthe west of the Washita, had been disarranged. I'll prohably get to Wapannicka on the 23rd. Mr. Which directed me to go to Rain und with Sumpson- when contact rothwest until July 20 or 21 of when I should proceed to Wagamarka. There collect from hasal Caney shall & upper beds world

note carefully strategraphy of these heds near contact of these formations young 15th. Left springer with collections or Ravia via urdenere und Madill. Left Collections with Mr. Everette Noble of indmore to be packed & shipped when I shall have finished Collecting July 31 st 1508. July 10 Th. seemed horse from a Mr. P.R. Johnson, a cow man, residing in southeast Ravia. Rode north und west crossing Millerech just whose old mill. Cristrossed Dingson and upper anhuchle shall members 10 times in going to Wyatt or "lot town" = weal name. noted good exposures for section I mile west of Mill creek; on hoth sides of Sy camore Creek jossibly 1/ mile in Erch Sinchon i.e. last o west. There were only partial exposures along Oil Breek and on wagon road leading south from Wyalt towards In the exposure one mile west Chammed carefully for the presence I formits and the rations muches Indergrized in the detailed section made north / Springer, west of the Washita River. Fine prominent

Reasonical carefully for the present of forsils and the rations much be realist section made horth I springer, west Its Washita Rives. Time prominent sendstone ledges were restrict, the same as in the Springer section. The hasal one however, was very much thickened, heing 51 steps across with a dip to the south \$85°. The other members I the Singson were closely identifiable with those measured in the Springer section. The 0-500' of local feds of shales - shalp Is. Lulrich's general section?

immediately below the to fasal sandstone have occasional thin strata hearing ostracoda us found in the Springer Section. Sandstone hands corresponding to those measured in the Tyringer Section in the upper unbuckle are sersistent although thin as there. The work to day was Chiefly recommaisance my object hering to book up slaces where fine sections might be made on my return to Ravia. July 17 th. mide section of Dingson I pat Meho along section line through four for that above 2nd sandstone member of Simpson, For the Simpson below 2 nd sandstone and the upper armuchle made section along section line I mile north of nels and west I Did breek. The Contact of the by grow and armoke is covered in the Dir Breek valley. See section along Simpson - arhunchle contact taking measurements and making a collection one mile west of Mult Creek. at wats in Ravia, Tha. Transrenbring notes made in field to remanent mite book. frely 20th. heft Rara for Wagami ka aid from Mill Creek from Meto. Livery Ravia to Tishinings 150. Wagamucha 10 A.M. found on wriving that Hayes, Taff and Which were registered I

I'Meil hotel. Mr. Hayes left last evening for the West and Mussens Tuff & Which were out in a buggy to Browide Springs & neighborhord Wirthwest Take Remained in town since could not get hours to rick. Transcribed notes into germanent note Both for Mr. Which tuch 21 st. (Arone gut ) Wasannicka with Dris Pall & Which over Worka Nagantleha & Carey shale Collected forsils from the Woodered in Then & 1 1 the N.S. 1 sec. 28 T.15. R. 8 & also from the Woodford - Hunton contact near a spring n E.1/ see 21, T.15. R8 E The new Scotland horizon of the Hunton formation was seen in an escargment in the n.E. I flee 20, T15. R&E. The soluble

have I the sounton the Sylvan shale and the top I the Viola Is.

Were examined in Sec. 20 715

R 8 E. Wether turned toward Wagamucha through the Delaware bottoms. It was in these hottom that we were compelled to walk for some distance since the bund pulled the houses so hard beleations were made from formations noted. July 22 nd.

Office work at Wagamucha Okla. West for ardure on 6/5 PM.

train CR, I & R.

July 23nd.

Granwe Okla. Whithington Hotel

Prok Dr. Ulrich over to Dr. Henry oculist.

for treatment of injured eye. G very

lesay rain fell during the

Decorning. In the afternoon started

to rewrap and pack my collections

17) which had been assembled at Exert Holle's

Concluded racking of collections and arranged for the shipment of them to washington D.C. July 20: Went with Dr's Mich and Puff and Mr. Reed to the Corner wills southwest fundamere. July 26. Rode house back from ande collections from some formations seen on the grevious day. July 27th. Regached in barrel and king parts of my collection which had been prehid in two mail bags. Left andmore at 12:01 PM. Stex S.F. B.R. via Madilland Ravia to Tishiningo Okla. While at Ravia I shipped a collection box which had heen previously collected to Washington July 28th. Fired saddle horse and rode north-Surgeon-Viola transition series on the Mic Clish rauch. July 29th.
Collected from Sungson-Viola
transition series south of
M. Clish ranch house.

July 30th.

Resumed work of previous

Lay until late in the afternoon

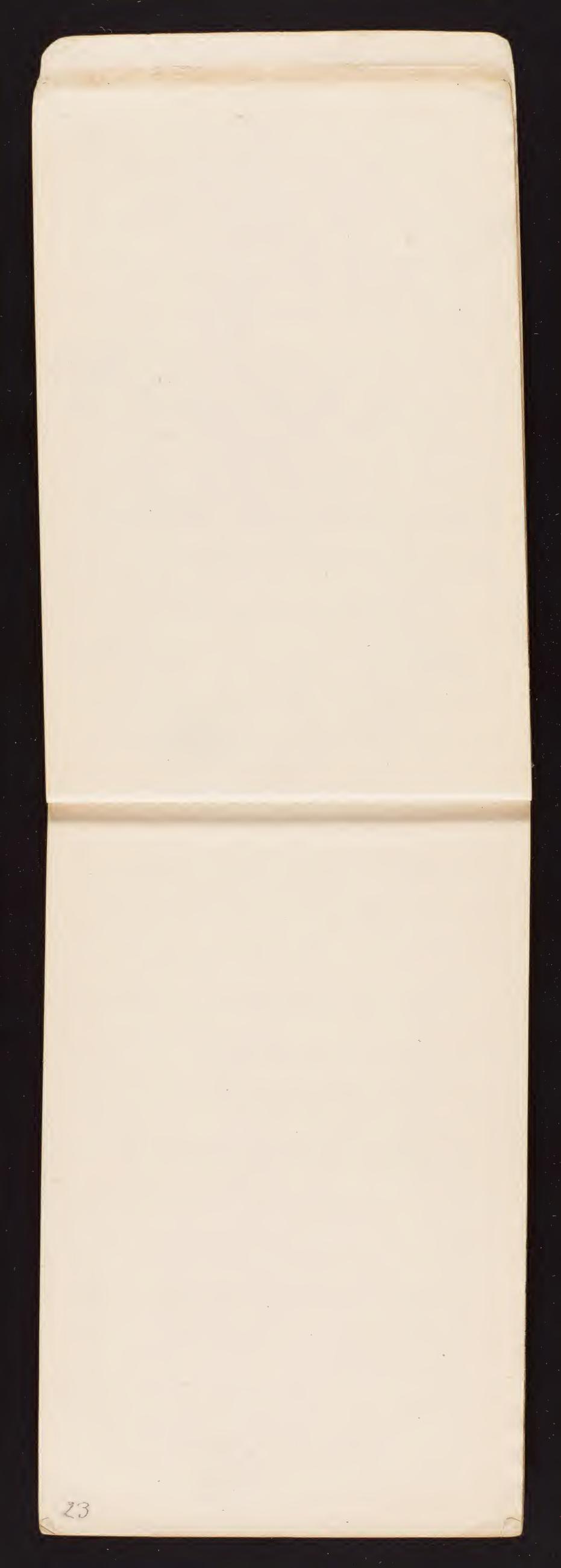
when trode fast Minutus horizon

rear base of Hunton b. N.E. 4 see 20

The Rose about 1m. s. y Hunton

19) P. O., as givin in Atoka folio (79)

John 31St/908 Wagameha Ohla Packed collection mide from the Supson-Vila transmon senes I kunton formation and Shipped Boarded train at 10 A.M. for Morman Okla via Haile ville & Ohlahoma City. This Concludes the Calendas for nix weeks of very interesting work as collector, under the direction of An E.O. Which, U.S. Geological Survey Washington D.C.



Merich's General section I hower obstractile south side I untruckie Mountains west I Washita Il untuckie Mountains Kives. How Richmond funny Dub granular Viola Thin Redded fine grained, Trinucleus Leds. 400' Lunestone & shile - them Indded, firmiliferous. 70'sandstone (5th.) 400' ls & sh with orthis tricenaria rather fisils. 100' sandstone (4th) 195' shy ls Fissels chiefy 53' D.D. (3rd) 300'SThun hedded lo. with a little sh. Full-Istracoda, Sasteropoda, Trilobites etc. 245 nearly all greenish sh. 5" bandstone (2 nd) 350' Engus. eryst. ls. full of otracoda with with little else. Examine Closely Local sandstone (1st) 0-500' Local heds of shale XXX

& Continued from vienous rags. forniliperons bands. × Eccyhopterus heds whant zovo' mostly massive ls. about 2 000' massing and one more or less chest lo., thin tedded, below. 400 Dolorate rather coarse weathers = 400-500 Cs. - occasional Tribolite Cayers Greensand & limestone full frachispreds. 200-400'
hasel 55 evrigl, 11211 Grante 5 SAW = Lot 1 of Reeds Egrunger, St. Quet a biliceans sh. 4 hoad sand 276 I 35' Thin hedded sh. B. hab occasioned flint medille Thick & argilla crows constanciation 4. Le permaint liber. 21' Sheet to with some an is generated & S. 881 17 shale (averal) 25:51 E 4' gray peroralet to. 94.8 21 Ls massing personal 22 'S' 15" sheets finds to yellowish burnalish of 28.1 111 15" L- 3 Lugar 1101.41 24 Stule & thin twolded B 22.50

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3° shale personalint) 5% 3 595 28.5 3.91 18' strang to world 3.91 menters. 30. Staly hade with

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54.73 72 borend sh. Him health L. 712' The heddled to no from 5. 11,30 Base I stude massing to Cento I with the thestures that that I sulcrappung math of Springe, Mach of 15 to stute 1.25, R. 25. Collodo 21/2-3 miles whichle tuesday. N.N. 1/ Sec. 30

enterprise de mande elle in tent de mos de m 1, mo o moj nos project us con 2 2 2 ml - 4 - 25 MX - soudinate in line minimum when you is it is more than the to make of The same of the holy and considered the section of comment the the the second of the second of the second d-in the standard of the stand THE S. C. L. IN cholomical (remodel) Mich chillin Lyndilia n. sp., Aparable sp., ditambone. 12 M.S. C. 5 - The a year News das besterbits. Section Wast byrung beet (Elk)n 3 miles hacken but but 3 (188)n Hate, buttering as as Britiguesso migh. Mans courses and S. F. 33) Lyundilin mot of the Lounds on This held to of Amyer Section 1 h & Oh Sear of Evenish of A B. W. S.C. (2) 25' hogher than (1) in this.
Thelet be gidded mount one south thermolows. who e de my her he de de de per la se son de la perte de la pertenda del pertenda del pertenda de la pertenda del pertenda de la pertenda de la pertenda del pertenda del pertenda de la pertenda del pertenda del pertenda de la pertenda del pert 19 W. S. C. (3) 16' where 2) in the is more the first the state of (File & O. H. S. O. you show southers ( 4) S. W. ?! the first in setting the second the horizon? 13 ws (1) they go on, 900 200 is (2) . Arth lings gastropols. B. (Lot 1-2) next te prominent sh. b. R. W. S. C. O. Top of shall with intersellet & speatingado lange. R M 32(7) of shay wewn sh. lo. 12mg of

1. ( , , , , ) - 1, , , e, ; ( e , se , , , , , ) with the state of ASA speen shale. 11 M & Q (8) determs, on wew, Jen 6 mad gut 15, Wil 5W, 15 W/4, 5W/4, 5W/4, 5W/4 (5) DOM 3/ staller. These were extleded of the church states in grale 11 MAC.10 Bild of the flathe outhous browners. 18. W. S. C. (5) hi green sh grilly with some of the sound of the soun 88. W.S. Q.(13) -Jun hedded anostore (A) DigMill on fresh about solver solvers (To's phouse) M. J. W. B. C. (3) Shure were to the Malata Department of the Manual of Shure of the Manual of the Shure of the state of t + other non deagreson hibigs State with the DC (16) of a way state with some Chambrand , Ording according the wind of the Miles of the Manual of the 19. W.S. Q. U.B. Thun shah Zimazina M. M. S. C. V. S. Lieber of heavy to. Sie enst in bedad be just kenn sie enst fenn heut be just kenn sie enst fenn heute bei just kenn sie enst fenn heute fenn sie enst fenn sie en Collicted from top 1 (23, 0.8.M.A. 18 M 80 (23) dicet southered 17 W 80 124) Greenich Hube 12 W80125 18 M 8 G 15 6 had in hear

July 1-3 1908; Lisch Lund, Leder Leder My SC PS Top most back thin helds be I thinking some that Brysex

I then that Experience with Brysex

- R. H. H. C.S. Ditton (1) 1 St. sandstone 2-6 m. thick, Corresponds to bosent p.s. it have I dynnys section. 63' Thin health sh. B. Stellend 2) P. H. H. C. S. 02.531 387 (worked) innoher. 8 Lation 3) R. H. H. C. S. 21.55 51' This hedded sh be shalf only in Station H RHHOS. 1.42 57' This holded dimestone Station (5) R. H. C. S. Dellander 525

1 8 States (7) R. H. R. O. S. S. Shahille 186 hill hinks spår enne kusten. 28. 21 promund like Jh. he forsil. 195 both few himselone hels. 7 .12

And of the property of the second of the sec mon dil torthe some dil or line is the sound in the sound Man Orther ignorally that I will the enteract believes to the Employ on the Lumble Ala. 8, Now much of the course The highest stained Education fropts off when a second The state of the s about the second the second out when waster of the first more than the second of the second in the second of the second 1 11 1 5 1 11 1 5 m End loth of Charles back. Contact believe bere of suffer. Just hud mile mile hill half 188.3 Station 8) P. H. H. O.S. Thin belogs , , 622 760 Green Greend hill side ord I 6691 I H. Ralge B. Station (4) RIHACS. 18.69 8.58" (11.15) R. H.H. P. C.S. 8 Salod Charles Myon 8.58" (11.11) R. H.H. P. C.S. 8

12.69 Little short that the salos Charles p.44 Outing the free of the side of the second ones.

12 11 41. Relge. B. Method 12) R. H. H. C. D.

· New to mind of the said of the months of the state of the stat of me, me, and of the state of the 3/ 2/6 Flance of the state of the second modification & of or the suit on the suit of the suit Life + 1. Ac 12 12 1. 1 4 6 5. 2 As to wholm so all the godiner & my hounds of who miner of the contraction of the Chelmin hours, days " who maded 7/20/5 Illiam a sport of a standard and the open Eliteral in from hereit oilateres 1, 2 21, 11 = some and some and a sold and the sold to assent in white all all menjudard surjujuntarp. It is the 1911' Breeze of completeling to. (detroited) R. H. H. R. O. ( Superino L.) 138. This helded seem corplete. b. 8 holes (15) RHH C. 15, to to gree sh. : , c.12 g 120 Thin helded men enjotelle 36' this held semi emplethme h. I Station (6) 12 H. H. D.S. 3.9' k (8) M. M. M. M. M. C. B. 210' thing held blem. Enjolathe 15 the 18) 18 H ACS.

Four hits of fronts from the house the holds of the house the house the found then house the house the house the house the house the house the found from the sound our death from the sound our last the found from the sound the sound our last the found from the sound the sound the sound the sound the sound the sound our last the sound . send sunds 121. d. he mart desputer that 1 2 let from gree sh. helos 3 d. dis. I find ship, 27 press, helin top of the land of sold 308 has went of them House aute alledos. Were here I thought I who, Becaugement

St. 1 chosento 6. 17. Chillian 19. 5 6 Just wat & East mixed that. 1. C.E. Theyer I though House on Hone hack -Willed B. upper Rength, in west you July 11 '08 mude cathleten green shall & thu 31,9,21,7 92,556 H. W. R. Arch. 15, R.18. hand, then south ment the sensit Think allection him year stanks & Mid much whichen from untuckle I hay you thought outhord, by , 6 2 routh, I hur fram Horner, on fenera humand. rome note. 1 is .....

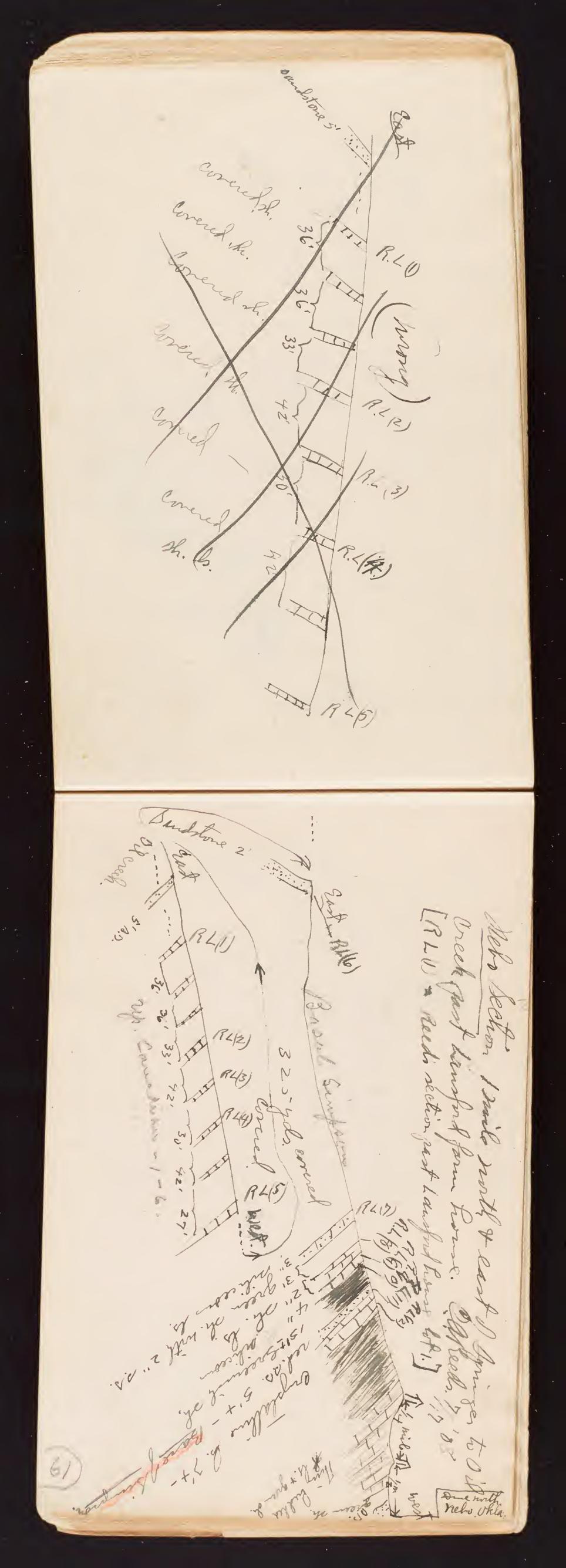
Statement and love to Show and of Sportinger hingstone, hundred most 336 Green shell and their holdes 99 randator and otale. Aused Look to well is .... 233 237 helded himming 118.12. Sam of the Com held in 1811. ,1.611 121 Erece stute 56.2. \ 5.7' Thu hidded & appearent

( achief fire) regions (30); 199 Justi Fremish the 4.88 \$ 16 him tedded Hab Linestone Sos's Sta holded hunders (lovered) Land ( 200) ( 18 6 : 19 18 9. 4 322.5; 324 The headed shak himstern 17' Thich ledges I house to .1.91

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The former this thick with 21 south the with the with the with thick of the former of the state 14.9 ,14 Lit -gaber was. The stricts to the roll. [Time did not the strict. I time did ledges I knussions continux se Mit: , The thresh health shows & heary Measurent out, were mid. Permeron & hope withwalk. Reduce Much showy struck

A. C. Lander To do Branco and a second Marine Realizable S. S. S. E. S. AME 3 the Range Range of the Contract of the Contr Sales Services BX(6) The second second A DO DATE This helded b. Con Con San silicions in low myset sector men hinger her of sector Aparatical Standard S. F. Read Stranger S A Roman Andrews of the second Har Ruddelf. hear occasion hearing Palls/Morale



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Viola - Singson trausitions

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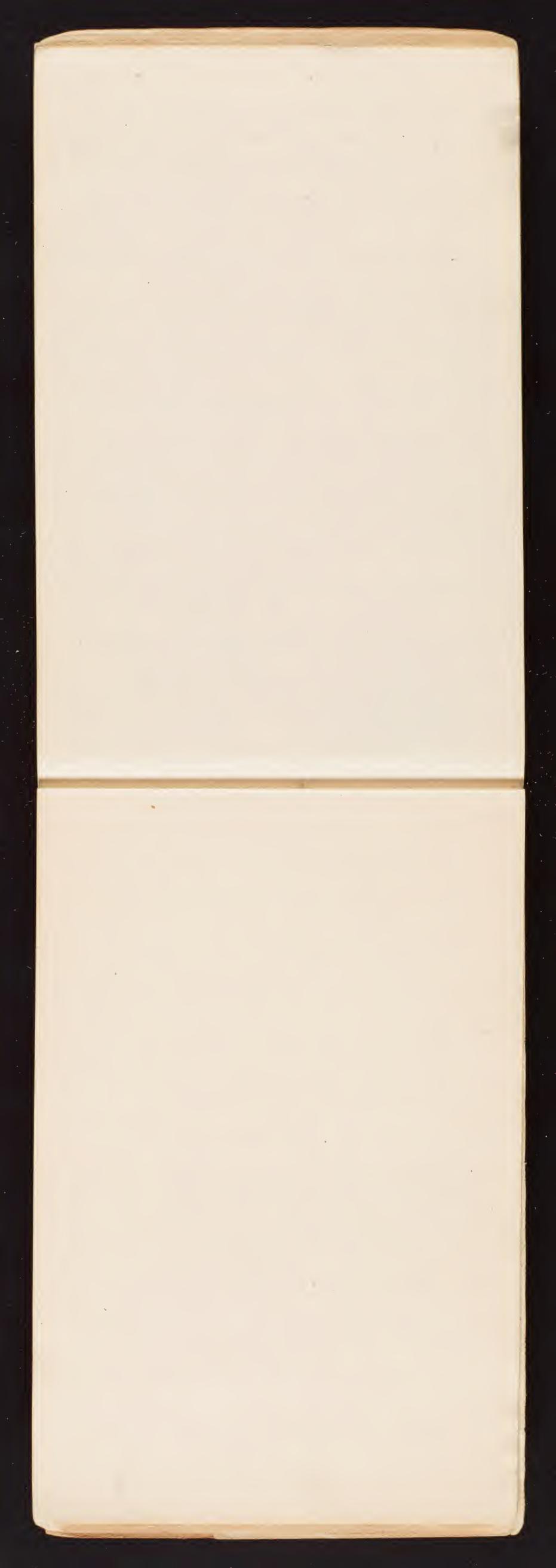
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Modern of 188. An A. E.O. Which of by. Manustan to. I made that the the standard th May Some Richard Roman hum headed bi- in the Galleward Market Start Start Market Start Star Work them we have been been them to the second them the second them to the second the second them to the second them to the second them to the second the second them to the second the secon

Dection mile west Millereck south six whichle Mts. Transition series, whenchle-Simpson Joseph Sandstone 5 3 paces, very fine white pand. maces, thin bedded be ledges +-bin thick. hote: Thicker in upper part while in lower fine yellow shale partings and thin beds. RM (1) & RM (2) sooner parding and thouse 2 paces, thin helded its with Brachespods.

M (3) Decortain or with grant out in fine for the said of the s 28 paces grass covered slope this thin Redded dunestone. FRM (4) to PM (7)

3' massive to fissile shah bs.) no 3' covered fissile shale 12' Thin bedded is 8/2 paces (correct) Shale with thin bands can Plimestone RM(8) Lymitia. depend in & tall quality, a 3 paces very thin hedded she 20" shay himestone. 1/2 paces, covered shale. 2 paces covered shale 15" Thin hedded Is. I pace covered shale. skepre delin hed-vah. J. bornia andore. n. g. g. Jar Z 20" dark pitted b. I pace (corred) shale 4" lammated, jellowish sh. indurated 1 shah ls. 2 paces (correct) sinals 6 paces thin hedded yellowish shale 21 paces yellow shale industed, streeted the most part. Mote: The strata express here dip 80°



Wind 1 11 11 27,28 - 11 3/2001 29 to 47 10 26%. A-lengtedon 29 to 35, 10, 64.67 Tanton - 3m, 2011. 48 49 Acuto, Janes Mill 51 to 36 Grantine with the Come but East of spring 51-59. Nebro - rede = 1-0 1 60-61. 1 13 azal 55.9 Sampson 63 13 11 / 10 , Sala 12 in the second of 4 MR Chief much house 65-60

